# PATENT COOPERATION TREA





### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

A1:			516,417
Applicant's or agent's file reference 310200813WO1	FOR FURTHER ACTION	SeeNotificat Examination	ionofTransmittalofInternational Preliminary Report (Form PCT/IPEA/416)
International application No.	International filing date (day/n	ionth/year)	Priority date (day/month/year)
PCT/JP2003/006151	16 May 2003 (16.05.	2003)	05 June 2002 (05.06.2002)
International Patent Classification (IPC) or no H01L 23/50	ational classification and IPC		(**************************************
Applicant	RENESAS TECHNOLOG	GY CORP.	
_	<i>B</i> == =================================		tional Preliminary Examining Authority
2. This REPORT consists of a total of	5 sheets, including	this cover she	eet.
This report is also accompanie amended and are the basis for a 70.16 and Section 607 of the A	d by ANNEXES, i.e., sheets of this report and/or sheets containst distributions under	he descriptioning rectification the PCT).	a, claims and/or drawings which have been ons made before this Authority (see Rule
These annexes consist of a tota	l of 12 sheets.		
3. This report contains indications relating	ig to the following items:		
I Basis of the report			
П Priority			
III Non-establishment of	opinion with regard to novelty, is		••
IV \(\sum_{\text{Lack of unity of invent}}\)		iventive step	and industrial applicability
		novelty, inven	tive step or industrial applicability;
' VI Certain documents cited			
VII Certain defects in the in	iternational application		
	the international application		
ate of submission of the demand	Data of	-1-4:- 0:-	
16 May 2003 (16.05.2003		npletion of thi 23 Janua	s report ary 2004 (23.01.2004)
nme and mailing address of the IPEA/JP	Authorized		3 0 1 (23.01.2004)
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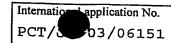
Translation

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Internat	application No.
PCI	/JP2003/00615

I.	Basis	of the re	port	
1.	With	regard to	the elements of the international application:*	
		the inter	mational application as originally filed	
	$\boxtimes$	the desc		
		pages		, as originally filed
		pages		filed with the demand
		pages	, filed with the letter of	
	$\boxtimes$	the clair	ms:	
		pages	11-51	, as originally filed
		pages	, as amended (together with any state	ment under Article 19
		pages		filed with the demand
		pages	, filed with the letter of	
	$\boxtimes$	the drav	wings:	
		pages	1/73-73/73	, as originally filed
		pages	<u> </u>	filed with the demand
		pages .	, filed with the letter of	
	П	he seque	nce listing part of the description:	
		pages	-	, as originally filed
		pages		
		pages	, filed with the letter of	
2.	the ir	the lang	guage of a translation furnished for the purposes of international search (under Rule 23.1(b)). guage of publication of the international application (under Rule 48.3(b)). guage of the translation furnished for the purposes of international preliminary examination	which is:
3.	With prelim	minary ex	to any nucleotide and/or amino acid sequence disclosed in the international applicate xamination was carried out on the basis of the sequence listing:  need in the international application in written form.	ion, the international
		filed to	gether with the international application in computer readable form.	
		furnish	ed subsequently to this Authority in written form.	
		furnish	ed subsequently to this Authority in computer readable form.	
			atement that the subsequently furnished written sequence listing does not go beyond tional application as filed has been furnished.	the disclosure in the
			atement that the information recorded in computer readable form is identical to the written provished.	sequence listing has
4.	$\boxtimes$	The am	nendments have resulted in the cancellation of:	
			the description, pages	
			the claims, Nos1-10	
	•		the drawings, sheets/fig	
5.		This rep	port has been established as if (some of) the amendments had not been made, since they have the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	been considered to go
*	in th	acement s is report 70.17).	sheets which have been furnished to the receiving Office in response to an invitation under Art as "originally filed" and are not annexed to this report since they do not contain am	icle 14 are referred to endments (Rule 70.16
**		•	ent sheet containing such amendments must be referred to under item $\it 1$ and annexed to this $\it rep$	ort.
İ				

IV. Lack of unity of invention
1. In response to the invitation to restrict or pay additional fees the applicant has:
restricted the claims.
paid additional fees.
paid additional fees under protest.
neither restricted nor paid additional fees.
This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.
3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is
complied with.
not complied with for the following reasons:
See supplemental sheet
<ol> <li>Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report:</li> </ol>
all parts.
the parts relating to claims Nos. 11-26, 32-39



Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: IV. 3.

- I. The invention of claims 11-26 and 32-39 relates to a semiconductor device having a first circuit section comprising a transistor having a current path between a first potential and a second potential, and a second circuit section comprising a transistor having a current path between a third potential and a fourth potential.
- II. The invention of claims 27 to 30 relates to a semiconductor device wherein a third pad is connected to a first busbar with a third wire, which passes between a first wire and a second wire.
- III. The invention of claim 31 relates to a semiconductor device wherein input/output pads, a first power source pad, input/output pads, and a second power source pad are arranged in this order.
- IV. The invention of claims 40-43, 46-51 relates to a semiconductor device wherein an outer lead is joined to each of a pair of busbars.
- V. The inventions of claims 44-45 relates to a semiconductor device having a tape member connected to the end of each inner lead and a chip mount section.

These five groups of inventions are not acknowledged to be a group of inventions so linked as to form a single general inventive concept.

## INTERNATIONAL PRELITARY EXAMINATION REPORT

International	application No.
PCT	03/06151

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	11-26, 32-39	YES
	Claims		NO
Inventive step (IS)	Claims	11-26, 32-39	YES
	Claims		NO
Industrial applicability (IA)	Claims	11-26, 32-39	YES
	Claims		NO

#### 2. Citations and explanations

Document 1: US 6396142 B1 (Hitachi, Ltd.)

Document 2: JP 6-37131 A (Hitachi, Ltd.)

Document 3: US 2002/0053729 A1 (Kumiko Takikawa et al.)

Document 4: JP 6-252328 A (Mitsubishi Electric

Corporation)

Document 5: JP 5-243472 A (NEC IC Miconsystem Kabushiki

Kaisha)

The invention set forth in claims 11 to 26 and 32 to 39 is not disclosed in any of the documents cited in the international search report, and would not be obvious to a person skilled in the art.